

Date and time — Representations for information interchange

Part 1: Basic rules

Amendment No. 1

Revised text amendment

Publishing and Approval Dates

Council of Standards Australia Approval: 13 January 2023

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Summary

This Amendment applies to the following elements:

- Front cover
- Preface
- Amendment 1

Amendment Details

AS/NZS ISO 8601.1:2021 is amended as follows. The amendments should be inserted in the locations as instructed.

Element	Instruction/New text
Front cover	Top left-hand corner, after ISO 8601-1:2019, <i>add</i> the following: ISO 8601:2019/Amd 1:2022 (Incorporating Amendment No.1)
Preface	<ol style="list-style-type: none"> 1 After the first paragraph, <i>add</i> the following: Amendment No.1 to this Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT-019, Information and Documentation, Information Technology — Learning, Education, Training and Research. 2 <i>Delete</i> the fourth paragraph and <i>replace</i> with the following: This document is identical with, and has been reproduced from, ISO 8601-1:2019, <i>Date and time — Representations for information interchange — Part 1: Basic rules</i> and its Amendment No. 1 (2022) which has been added at the end of the source text.
Amd 1 (new)	After the Bibliography, <i>add</i> the following Amendment No.1 (2022):

Amendment 1

3.1.1.24

Replace “Note 2 to entry” with the following:

Note 2 to entry: An inserted second is called a positive leap second and an omitted second is called a negative leap second. A positive leap second is inserted after [23:59:59Z] as the last second of that minute, which is represented as [23:59:60Z]. A negative leap second is achieved by the omission of [23:59:59Z], where the last second of that minute is represented as [23:59:58Z]. Insertion or omission takes place as determined by the International Earth Rotation and Reference Systems Service (IERS), normally on 30 June or 31 December, but if necessary on 31 March or 30 September.

3.1.2.15

Replace “Note 1 to entry” with the following:

Note 1 to entry: The term “week” applies also to the duration of any *time interval* (3.1.1.6) which starts at a certain *time of day* (3.1.1.16) at a certain *calendar day of week* (3.1.2.12) and ends at the same time of day at the same calendar day of week in the next calendar week.

4.2.2

Replace “NOTE” with the following:

NOTE The calendar year used in the week calendar and the Gregorian calendar are independent units and do not necessarily align. An identical day as referenced in the week calendar and the Gregorian calendar can belong to different calendar years in their respective calendars. For instance, the first day of 2019 Week 1 (a Monday) in the week calendar is actually 2018-12-31 in the Gregorian calendar.

4.2.2

Move the NOTE to before Table 2.

4.2.3, first paragraph

Replace the paragraph with the following:

This document uses the 24-hour clock for identification of times within a calendar day, where the duration of a calendar day is defined as 24 clock hours, the duration of a clock hour as 60 clock minutes, and the duration of a clock minute generally as 60 clock seconds (except when insertion of a positive leap second or omission of a negative leap second occurs).

4.3.2

Add the following paragraph after the first paragraph:

The year number may be preceded by a minus sign to indicate a year preceding year zero.

4.3.2, third paragraph

Replace the paragraph with the following:

The number of digits may exceed 4 in the case of expanded representation.

4.3.11

Add the following paragraph as the first paragraph:

Each Gregorian calendar decade is identified by a 3-digit ordinal number beginning with '000', for decade zero, through '999'.

4.3.12

Add the following paragraph as the first paragraph:

Each Gregorian calendar century is identified by a 2-digit ordinal number beginning with '00', for century zero, through '99'.

5.3.1.4, first paragraph

Replace the paragraph with the following:

A decimal fraction of hour, minute or second may be included in a representation. If included, lower order time scale components (if any) shall be omitted and the decimal fraction shall be divided from the integer part by the decimal sign. If the magnitude of the number is less than one, the decimal sign shall be preceded by two zeros in accordance with 4.5.

5.3.2

Replace the subclause title of "Beginning of day" with "Beginning of the day, ending of the day".